

Measure - assign a # to represent
a property/variable

- diff. measurements for
diff. individuals

ht.
Ex: inches, pain, etc.

Instrument - used to gather/take the
measurement

Ex: ruler, tape measure, chart

units - differ depending on what's being measured & instrument

Variable - numerical when measure
- take diff. values for diff. indiv.

- 1) How is the variable defined?
- 2) Is the variable a valid ^{good} way to describe the ~~the~~ property you're measuring?
- 3) How accurate are the measurements?

Valid = a measurement of a property
that's relevant/appropriate

Ex: ht. for intelligence (NO)
SAT for intelligence (YES)

Rate - fraction, proportion, percent
- often more valid than simple counts (#'s)
*context

Ex: test

1 passed block 1	25%
5 passed block 2	20%

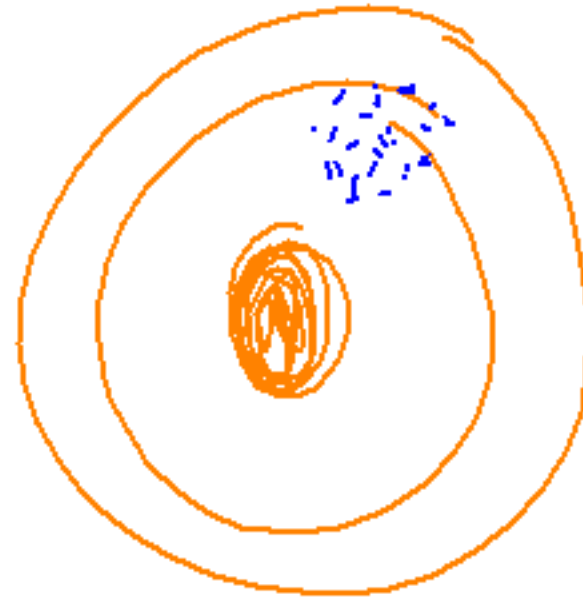
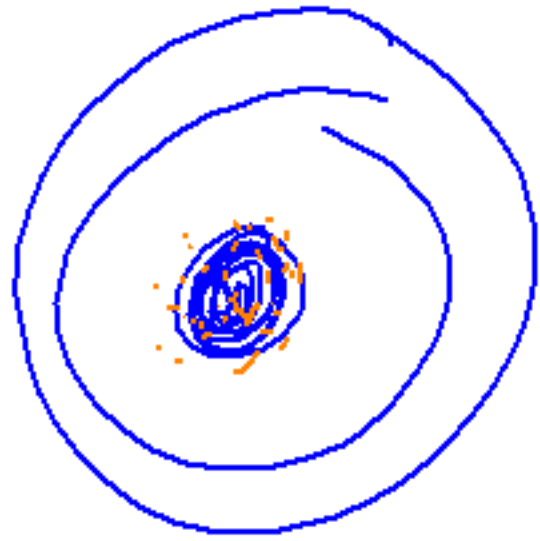
TOTAL # of students!

Predictive Validity - measurement that is used to predict the success on ~~the~~ related tasks.

Ex: SAT scores \rightarrow college grades

Bias = systematically favoring one
BAD outcome
(over/understating a measurement)

Reliability = * always random errors
GOOD When random errors are
small



Low Bias ✓
High Reliab. ✓

